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      Foster, Donald C.
      Holly, Richard D.
      Gross, Jane A.
      Johnston, Janet V.
      Nelson, Andrew J.
      Dillon, Stacey R.
      Hammond, Angela K.
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Thn					. Doo				lvs	Gli	ı Lei	Llvs	: A1a	alvs	Gly	
1111	Trp 130		GIL	1 116	Pro	135		, ,,,,,,	Lys	arc	140			J -		

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			Ala 420					425					430		
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gtg a														768
aaa d Lys f														816
aac a Asn l														864
gaa (Glu (912
ctg Leu 305														960
acc Thr														1008
atg Met														1056
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215

210

220

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Asn	Lys	G1u 275	Leu	Ala	Lys	Glu	Phe 280	Leu	Glu	Asn	Tyr	Leu 285	Leu	Thr	Asp
Glu	Gly 290	Leu	Glu	Ala	Val	Asn 295	Lys	Asp	Lys	Pro	Leu 300	Gly	Ala	Val	Ala
Leu 305	Lys	Ser	Tyr	Glu	Glu 310	Glu	Leu	Ala	Lys	Asp 315	Pro	Arg	Ile	Ala	A1a 320
Thr	Met	Glu	Asn	Ala 325	Gln	Lys	Gly	Glu	Ile 330	Met	Pro	Asn	Ile	Pro 335	Gln
Met	Ser	Ala	Phe 340	Trp	Tyr	Ala	Val	Arg 345	Thr	Ala	Val	Ile	Asn 350	Ala	Ala
Ser	Gly	Arg 355	Gln	Thr	Val	Asp	G1u 360	Ala	Leu	Lys	Asp	Ala 365	Gln	Thr	Asn
Ser	Ser 370	Ser	His	His	His	His 375	His	His	Ala	Asn	Ser 380	Val	Pro	Leu	Val
Pro 385	Arg	Gly	Ser	Cys	Pro 390	Asp	Leu	Val	Cys	Tyr 395	Thr	Asp	Tyr	Leu	Gln 400
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Ser	Cys	Ser 435	Leu	His	Arg	Ser	A1a 440	His	Asn	Ala	Thr	His 445	Ala	Thr	Tyr
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Phe	Leu	Leu	Ala	G1u 485	Ser	Пе	Lys	Pro	Ala 490	Pro	Pro	Phe	Asn	Val 495	
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Tyr	Arg 530		Arg	Gly	Asp	Pro 535		Ala	Val	Ser	Pro 540		Arg	Lys	Leu
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                                                                      180
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                                                                       240
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acaaatgaaa aatgttcttc atcagactat aacataattt acccaaagct gccactagtc
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ccgcaagatc cacctcccg					1140
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acagggtttc accatgttag					1260
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gaggaagtca ttaggcaga					1500
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Tyr Met Pro Lys Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu
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Glu Glu Leu Lys Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys
Asn Phe His Leu Arg Pro Arg Asp Leu Ile Ser Asn Ile Asn Val Ile
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                                105
                                                     110
Val Leu Glu Leu Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala
                            120
                                                 125
Asp Glu Thr Ala Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe
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Cys Gln Ser Ile Ile Ser Thr Leu Thr
145
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Glu Ile Ile Lys Thr Leu Asn Ser Leu Thr Glu Gln Lys Thr Leu Cys
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Thr Glu Leu Thr Val Thr Asp Ile Phe Ala Ala Ser Lys Asn Thr Thr
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Glu Lys Glu Thr Phe Cys Arg Ala Ala Thr Val Leu Arg Gln Phe Tyr

75

80

70

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 Asp
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 Val
 Cys
 Tyr
 Thr
 Asp
 Tyr
 Leu
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 Cys
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 Leu
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 Asn
 Leu
 His
 Pro
 Ser
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 Thr
 Thr

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Thr	Phe 130	Ser	Gly	Gln	Tyr	Asn 135	Ile	Ser	Trp	Arg	Ser 140	Asp	Tyr	Glu	Asp
Pro 145	Ala	Phe	Tyr	Met	Leu 150	Lys	Gly	Lys	Leu	Gln 155	Tyr	Glu	Leu	Gln	Tyr 160
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			180					185					190	Arg	
·		195					200	_				205		Gly	
	210					215					220			Phe	
225					230			_	·	235				Leu	240
				245					250			·		Leu 255	
			260	•			·	265	-				270	Pro	
		275					280				-	285		Asp	
	290	•				295					300			Leu	-
305	·				310					315				Cys	320
				325					330					G1n 335	
			340				,	345					350	Phe	
		355					360					365		Arg	·
	370					375		•			380			Asp -	
385	_				390		_		-	395	·	·	_	Tyr	400
		·		405					410			_		G1u 415	·
			420		_			425			-		430	Val	
Ala	Gly	Ser 435	Pro	Gly	Leu	Gly	Gly 440	Pro	Leu	Gly	Ser	Leu 445	Leu	Asp	Arg

Leu Lys Pro Pro Leu Ala Asp Gly Glu Asp Trp Ala Gly Gly Leu Pro Trp Gly Gly Arg Ser Pro Gly Gly Val Ser Glu Ser Glu Ala Gly Ser Pro Leu Ala Gly Leu Asp Met Asp Thr Phe Asp Ser Gly Phe Val Gly Ser Asp Cys Ser Ser Pro Val Glu Cys Asp Phe Thr Ser Pro Gly Asp Glu Gly Pro Pro Arg Ser Tyr Leu Arg Gln Trp Val Val Ile Pro Pro Pro Leu Ser Ser Pro Gly Pro Gln Ala Ser